AWS CLI Commands

### ****What is AWS CLI?****

* **AWS CLI** is a tool that lets you interact with **Amazon Web Services (AWS)** via command line. Instead of using the AWS Management Console (the graphical interface), you can execute commands from your terminal or command prompt to manage AWS services and resources.

### ****Key Features of AWS CLI:****

1. **Automation**: You can automate tasks like creating instances, managing storage, configuring security, and more.
2. **Cross-Platform**: Works on multiple OS like Windows, Linux, and macOS.
3. **Simple Commands**: Once installed and configured, you can use simple commands to manage your AWS infrastructure.
4. **Scripting**: You can use CLI commands in scripts for automated tasks.

AWS CLI- Commands

#aws --version

#aws configure   
  
  
AWS Access Key ID [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*PI74]:  
AWS Secret Access Key [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ehkm]:  
Default region name [ap-south-1]: ap-south-1  
Default output format [json]: table

**To show the list of buckets in your aws account**#aws s3 ls

**To see the objects of particular bucket**  
#aws s3 ls meriko

**To see the all object of s3 which are also in any directory**#aws s3 ls meriko --recursive

**To see the file size in human readable format**  
#aws s3 ls meriko --recursive --human-readable

**To see total no.of objects and size used**  
#aws s3 ls meriko --human-readable --summarize  
#aws s3 ls meriko --recursive --human-readable --summarize

**To create new bucket**#aws s3 mb s3://newbucket1323  
#aws s3 ls

**To add/upload/ copy an objects into buckets**  
#aws s3 cp path\_of\_file\_you\_want\_to\_copy s3://bucketname  
Desktop\images\\_MG\_0992.JPG s3://newbucket1323

**To download/ copy an image from bucket to laptop**  
a. To download file at current working directory  
#aws s3 cp s3://newbucket1323/\_MG\_0992.JPG .

**b. To download file on desktop**#aws s3 cp s3://newbucket1323/\_MG\_0992.JPG .\Desktop\

**c. To download file on desktop in mydir**  
#aws s3 cp s3://newbucket1323/\_MG\_0992.JPG .\Desktop\mydir\

**To move the object from one bucket to another**#aws s3 mv s3://newbucket1323/\_MG\_0992.JPG s3://meriko/

**To move the object from one bucket to another with different name**  
#aws s3 mv s3://newbucket1323/\_MG\_0992.JPG s3://meriko/myimg.jpg

**To sync**#aws s3 sync .\desktop\data\ s3://new10323  
#aws s3 sync .\desktop\data\ s3://new10323

**To delete object from bucket**  
#aws s3 rm s3://new10323/index.jpg

**To delete bucket**  
#aws s3 rb s3://new10323  
#aws s3 rb s3://new10323 --force  
#aws s3 ls

**To get url of any s3 object**#aws s3 presign s3://merabillmaffkro/ravi/images/image.png --expires-in 60

**To enable MFADelete**  
#aws s3api put-bucket-versioning --bucket my-bucket-7feb --versioning-configuration Status=Enabled,MFADelete=Enabled --mfa " arn:aws:iam::956481627174:mfa/myAuth 282100 "

**To Disable MFADelete**#aws s3api put-bucket-versioning --bucket my-bucket-7feb --versioning-configuration Status=Enabled,MFADelete=Disabled --mfa " arn:aws:iam::956481627174:mfa/myAuth 908380 "

**Commands for EC2**  
**To show list of all regions**  
#aws ec2 describe-regions

**To show the list of instances present in your region**  
#aws ec2 describe-instances

**To start an instance**  
#aws ec2 start-instances --instance-id i-08872114b77f4d348

**To start multiple instances**  
#aws ec2 start-instances --instance-ids i-08872114b77f4d348 i-0077f6a957c88f05d i-01129098a90ff9ef4

**To stop an instance**#aws ec2 stop-instances --instance-id i-08872114b77f4d348

**To stop multiple instances**  
#aws ec2 stop-instances --instance-ids i-08872114b77f4d348 i-0077f6a957c88f05d i-01129098a90ff9ef4

**To terminate an instance**  
#aws ec2 terminate-instances --instance-id i-01129098a90ff9ef4

**To terminate multiple instances**#aws ec2 terminate-instances --instance-ids i-08872114b77f4d348 i-0077f6a957c88f05d i-01129098a90ff9ef4

**To launch a new instance**#aws ec2 run-instances --image-id ami-08df646e18b182346 --count 1 --instance-type t2.micro --key-name windows --security-group-ids sg-013eb167fe9ff8a68

**To create key pair**  
#aws ec2 create-key-pair --key-name MyKey --query 'KeyMaterial' --output text > MyKey.ppk

**To see list of all security groups**#aws ec2 describe-security-groups

**To create security group**  
#aws ec2 create-security-group --group-name mysgrp --description "my-security-group"

**To add inbound rules to security group  
a. SSH**#aws ec2 authorize-security-group-ingress --group-id sg-07179bfb93ab342e6 --protocol tcp --port 22 --cidr 0.0.0.0/0

**b. HTTP**  
#aws ec2 authorize-security-group-ingress --group-id sg-07179bfb93ab342e6 --protocol tcp --port 80 --cidr 0.0.0.0/0

**c. HTTPS**  
#aws ec2 authorize-security-group-ingress --group-id sg-07179bfb93ab342e6 --protocol tcp --port 443 --cidr 0.0.0.0/0

**To delete key-pair**  
#aws ec2 delete-key-pair --key-name myppk

**To delete any security group**  
#aws ec2 delete-security-group --group-name mysgrp

**Commands for VPC  
To create a VPC**#aws ec2 create-vpc --cidr-block 10.0.0.0/16

**To create a subnet**  
#aws ec2 create-subnet --vpc-id vpc-12345678 --cidr-block 10.0.1.0/24

**To create internet-gateway**  
#aws ec2 create-internet-gateway

**To attach internet-gateway to vpc**  
#aws ec2 attach-internet-gateway

**To create route table and add route of internet-gateway**#aws ec2 create-route --route-table-id rtb-12345678 --destination-cidr-block 0.0.0.0/0 --gateway-id igw-12345678